

Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe
 20 25 30
 Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
 35 40 45
 5 Pro Gln Thr Ser Leu Ser Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn
 50 55 60
 Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser
 65 70 75 80
 Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Leu Gly Thr Gly
 10 85 90 95
 Pro Arg Phe Val Asn Gln His leu Cys Gly Ser His Leu Val Glu Ala
 100 105 110
 Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
 115 120 125
 15 Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln
 130 135 140
 Leu Glu Asn Tyr Cys Asn
 145 150

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CLAIMS

WHAT IS CLAIMED IS:

- 5 1. A chimeric protein comprising, from N-terminus to C-terminus:
a) a first peptidyl fragment consisting of an amino acid sequence that has at
least 40% identity to a domain containing at least first 20 N-terminal amino
acids of human growth hormone (hGH) protein, in which the percentage
identity is determined over an amino acid sequence of identical size to the
domain of hGH;
- 10 b) an Arg residue, or a Lys residue, or a second peptidyl fragment consisting
of at least 2 amino acids in which peptidyl fragment the most C-terminal
amino acid residue is an Arg or a Lys residue; and
- 15 c) a third peptidyl fragment consisting of an amino acid sequence containing
more than two cysteine (Cys) residues which peptidyl fragment is not a
portion of hGH protein.
- 20 2. The chimeric protein of claim 1, wherein the first peptidyl fragment
consists of an amino acid sequence that has at least 60% identity to the domain of hGH
protein.
- 25 3. The chimeric protein of claim 1, wherein the first peptidyl fragment
is capable of being bound by an anti-hGH antibody.
4. The chimeric protein of claim 1, wherein the first peptidyl fragment
consists of the amino acid sequence of SEQ ID NO:1.
- 30 5. The chimeric protein of claim 1, wherein the first peptidyl fragment
consists of the amino acid sequence of SEQ ID NO:2.
6. The chimeric protein of claim 1, wherein the second peptidyl
fragment consists of the amino acid sequence of SEQ ID NO:3.
- 35 7. The chimeric protein of claim 1, wherein the third peptidyl fragment
is an insulin precursor.
8. The chimeric protein of claim 7, wherein the insulin precursor is of